U.S.S.N. 09/966,870 Applicant(s): Bader et al.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-24. cancelled

- 25. (currently amended) A method for identifying a genetic region associated with responsiveness to an agent, the method comprising:
 - (a) providing a plurality of single-nucleotide polymorphisms and a plurality of haplotypes for one or more regions of a chromosome;
 - (b) identifying the number of single-nucleotide polymorphisms of said plurality in at least weak linkage disequilibrium with each other on said chromosomal regions;
 - (c) comparing the number of single-nucleotide polymorphisms in linkage disequilibrium to the number of haplotypes in said chromosomal regions; and
 - selecting a correlation test, wherein a single nucleotide-based correlation test is selected if the number of single-nucleotide polymorphisms in linkage disequilibrium is smaller than the number of haplotypes and a haplotype-based correlation test is selected if the number of single-nucleotide polymorphisms in linkage disequilibrium is greater than the number of haplotypes, thereby identifying a genetic region associated with responsiveness to an agent.
- 26. (currently amended) The method of claim 25, wherein the haplotype based correlation test is a regression test.
- 27. (currently amended) The method of claim 25, wherein the haplotype based correlation test is ANOVA test.